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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/720,087

11/25/2003

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1081.1185

4918

21171 7590 12/10/2008
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ART UNIT

PAPER NUMBER

2617

MAIL DATE

DELIVERY MODE

12/10/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-23 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-2, 5, 16-20, and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger (previously disclosed) in view of Montgomery, US 20020141590 A1.

Regarding claim 1, Giniger discloses a system comprising a terminal for measuring the position of the mobile body (i.e., means for determining present position information from received position signals) (see col. 5, lines 52-53), encrypting the measured position information by predetermined encryption means and transmitting the encrypted position information (i.e., means for encrypting the present position information and means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); and a position recording apparatus (i.e., central server) (see col. 5, lines 50-51), remotely located from the terminal (see fig. 1), communicating with the terminal through a radio network (i.e., wireless means for establishing a bidirectional communications) (see col. 5, lines 51-58),

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receiving the encrypted position information transmitted from the terminal through a radio network (i.e., means for receiving the present position information from the mobile unit via the bidirectional communications link) (see col. 5, line 66 to col. 6, line 1).

Giniger also discloses a system comprising means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37, and col. 17, lines 29-57). With this disclosure, one skilled in the art would unhesitatingly conceptualize that the central server stored the location information in an encrypted state.

Giniger, however, does not specifically disclose a system wherein the recording apparatus can decrypt the previously recorded encrypted position information only after the terminal sends a key used to decrypt the previously recorded encrypted position information and that the recording apparatus receives the key from the terminal.

However, Montgomery discloses that the use of encryption is well known. Various encryption algorithms are well known with the capacity to encrypt data, which encrypted data can then be safely transmitted to a secure destination, whereupon it can then be decrypted to obtain back the original data (paragraph 2).

Montgomery further discloses that encryption of data is also well known, and what is known as a key is used to encrypt the data. That same key or version of it can then be transferred to the secure destination and used to decrypt the data that has been transmitted after it has been encrypted using a corresponding decryption key (paragraph 3).

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As can be seen from the disclosure of Montgomery, data can be encrypted and sent to a secure destination. And the decryption key is sent to the secure destination to decrypt the data that has been encrypted and transmitted.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by Giniger with the teachings described by Montgomery to arrive at the claimed invention. A motivation for doing so would have been to provide secure access to information by maintaining the integrity and confidentiality of the information.

Regarding claim 2, Giniger discloses a system (see claim 1 rejection) wherein the position recording apparatus transmits to the terminal the encrypted position information of the mobile body, which was recorded at the position recording apparatus, corresponding to the terminal, based on a request from the terminal (i.e., means for sending an encrypted retrieved response information to the mobile unit) (see col. 6, lines 37-43), and wherein the terminal decrypts the received encrypted position information using the decryption key that the terminal retains (i.e., the mobile unit's means for receiving response information comprises means for decrypting the encrypted response information) (see col. 6, lines 26-31). Also refer to col. 17, lines 29-57.

Regarding claim 5, Giniger discloses a system (see claim 1 rejection) based on a request from the terminal, decrypts the encrypted position information of a mobile body corresponding to the terminal using the decryption data information (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57), executes a predetermined process for the decrypted position information and

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transmits the result of the process to the terminal (i.e., means for sending the retrieved response information to the mobile unit) (see col. 6, lines 37-43).

Although Giniger discloses a system as described, Giniger does not specifically disclose a system wherein the server, i.e., position recording apparatus, receives a key from the terminal.

However, Montgomery discloses that the use of encryption is well known. Various encryption algorithms are well known with the capacity to encrypt data, which encrypted data can then be safely transmitted to a secure destination, whereupon it can then be decrypted to obtain back the original data (paragraph 2). Montgomery further discloses that encryption of data is also well known, and what is known as a key is used to encrypt the data. That same key or version of it can then be transferred to the secure destination and used to decrypt the data that has been transmitted after it has been encrypted using a corresponding decryption key (paragraph 3).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by Giniger with the teachings described by Montgomery to arrive at the claimed invention. A motivation for doing so would have been to provide secure access to information by maintaining the integrity and confidentiality of the information.

Regarding claim 16, Giniger discloses a terminal comprising a measuring unit for measuring the position of a mobile body i.e., means for determining present position information from received position signals) (see col. 5, lines 52-53); an encryption unit for encrypting the measured position information by predetermined encryption means (i.e., means for encrypting the present position information and means coupled to the

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encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); a communication unit for transmitting the encrypted position information to a position recording apparatus that records the encrypted position information, remotely located from the terminal, from the terminal through a radio network (e.g., bidirectional communications link) (see col. 5, line 66 to col. 6, line 1) (i.e., means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); and decryption unit having decryption data for decrypting the recorded encrypted position information after receiving the encrypted position information from the communication unit (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57).

Giniger, however, does not specifically disclose a terminal wherein the recording apparatus can decrypt the encrypted position information only after the terminal sends a key used to decrypt the encrypted position information and that the recording apparatus receives the key from the terminal.

However, Montgomery discloses that the use of encryption is well known. Various encryption algorithms are well known with the capacity to encrypt data, which encrypted data can then be safely transmitted to a secure destination, whereupon it can then be decrypted to obtain back the original data (paragraph 2).

Montgomery further discloses that encryption of data is also well known, and what is known as a key is used to encrypt the data. That same key or version of it can then be transferred to the secure destination and used to decrypt the data that has been

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transmitted after it has been encrypted using a corresponding decryption key (paragraph 3).

As can be seen from the disclosure of Montgomery, data can be encrypted and sent to a secure destination. And the decryption key is sent to the secure destination to decrypt the data that has been encrypted and transmitted.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by Giniger with the teachings described by Montgomery to arrive at the claimed invention. A motivation for doing so would have been to provide secure access to information by maintaining the integrity and confidentiality of the information.

Regarding claim 17, Giniger discloses position recording apparatus remotely located from a terminal of a mobile body (i.e., central site server) (see fig. 1), the position recording apparatus comprising: a communication for receiving encrypted position information relating to the position of at least one mobile body, from a terminal of the mobile body (i.e., means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); and a database (i.e., inherently part of the central server site) in which the position information is recorded in the encrypted state (see col. 6, lines 1-7, 19-43).

Giniger also discloses that the position recording apparatus can decrypt the recorded encrypted position information (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57).

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Giniger, however, does not specifically disclose a position recording apparatus wherein the recording apparatus can decrypt the encrypted position information only after the terminal sends a key used to decrypt the encrypted position information and that the recording apparatus receives the key from the terminal.

However, Montgomery discloses that the use of encryption is well known. Various encryption algorithms are well known with the capacity to encrypt data, which encrypted data can then be safely transmitted to a secure destination, whereupon it can then be decrypted to obtain back the original data (paragraph 2).

Montgomery further discloses that encryption of data is also well known, and what is known as a key is used to encrypt the data. That same key or version of it can then be transferred to the secure destination and used to decrypt the data that has been transmitted after it has been encrypted using a corresponding decryption key (paragraph 3).

As can be seen from the disclosure of Montgomery, data can be encrypted and sent to a secure destination. And the decryption key is sent to the secure destination to decrypt the data that has been encrypted and transmitted.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by Giniger with the teachings described by Montgomery to arrive at the claimed invention. A motivation for doing so would have been to provide secure access to information by maintaining the integrity and confidentiality of the information.

Regarding claim 18, Giniger discloses an apparatus (see claim 17 rejection) further comprising: an acquisition unit for acquiring the position information recorded in

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the database, in response to a predetermined request (i.e., means for determining present position information from received position signals) (see col. 5, lines 52-53), wherein the communication unit transmits the acquired position information from the communication unit in the encrypted state (i.e., means for encrypting the present position information and means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26).

Regarding claim 19, Giniger discloses an apparatus (see claim 17 rejection) further comprising: an acquisition unit for acquiring the position information recorded in the database, in response to a predetermined request (i.e., means for determining present position information from received position signals) (see col. 5, lines 52-53); a decryption unit for decrypting encrypted position information (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57); a processing unit executing a predetermined process for the decrypted position information (see col. 6, lines 1-7 and lines 37-43), wherein when the decryption unit receives, together with the request, the decryption data for decrypting the encrypted position information, the decryption unit decrypts the acquired encrypted position information and transmits the decrypted position information (i.e., the mobile unit's means for receiving response information comprises means for decrypting the encrypted response information) (see col. 6, lines 26-43). Also refer to col. 17, lines 29-57.

Regarding claim 20, Giniger discloses an apparatus (see claim 17 rejection) further comprising: an acquisition unit for acquiring the position information recorded in the database, in response to a predetermined request (i.e., means for determining present

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position information from received position signals) (see col. 5, lines 52-53); a decryption unit for decrypting encrypted position information (i.e., means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information) (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57); a processing unit for executing a predetermined process for the decrypted position information (see col. 6, lines 1-7 and lines 37-43), wherein when the decryption unit receives, together with the request, the decryption data for decrypting the encrypted position information, the decryption unit decrypts the acquired encrypted position information and the processing unit transmits the result of the predetermined process executed for the decrypted position information (i.e., the mobile unit's means for receiving response information comprises means for decrypting the encrypted response information) (see col. 6, lines 26-43). Also refer to col. 17, lines 29-57.

Regarding claim 22, Giniger discloses a method of managing position information of a mobile body, comprising receiving encrypted position information relating to the position of at least one mobile body, transmitted through a radio network from a remote terminal of the mobile body (i.e., encrypting the present position information and means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); and recording the encrypted position information in an encrypted state (i.e., Giniger discloses means, coupled to the encrypted present position information receiving means, for decrypting the encrypted present position information. Thus, one skilled in the art would have unhesitatingly conceptualized that the received information has to be stored/buffered in

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an encrypted state before being decrypted) (see col. 6, lines 35-37 and col. 17, lines 29-57).

Giniger, however, does not specifically disclose a method wherein the recording apparatus can decrypt the previously recorded encrypted position information only after the terminal sends a key used to decrypt the previously recorded encrypted position information and that the recording apparatus receives the key from the terminal.

However, Montgomery discloses that the use of encryption is well known. Various encryption algorithms are well known with the capacity to encrypt data, which encrypted data can then be safely transmitted to a secure destination, whereupon it can then be decrypted to obtain back the original data (paragraph 2).

Montgomery further discloses that encryption of data is also well known, and what is known as a key is used to encrypt the data. That same key or version of it can then be transferred to the secure destination and used to decrypt the data that has been transmitted after it has been encrypted using a corresponding decryption key (paragraph 3).

As can be seen from the disclosure of Montgomery, data can be encrypted and sent to a secure destination. And the decryption key is sent to the secure destination to decrypt the data that has been encrypted and transmitted.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by Giniger with the teachings described by Montgomery to arrive at the claimed invention. A motivation for doing so would have been to provide secure access to information by maintaining the integrity and confidentiality of the information.

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Regarding claim 23, Giniger discloses a method of decrypting position information of a mobile body, comprising: transmitting an encrypted position of the mobile body to an apparatus that is separate from the mobile body (i.e., encrypting the present position information and means coupled to the encrypting means for sending the encrypted present position information to the central server) (see col. 6, lines 21-26); storing the encrypted position of the mobile body in an encrypted state in the apparatus (i.e., by receiving and decrypted the encrypted present position information, the central site server inherently records or stores the present position information in an encrypted state) (see col. 5, line 66 to col. 6, line 7, col. 6, lines 35-37 and col. 17, lines 29-57).

Giniger, however, does not specifically disclose a method comprising transmitting a key used for decrypting the encrypted position from the mobile body to the apparatus.

However, Montgomery discloses that the use of encryption is well known. Various encryption algorithms are well known with the capacity to encrypt data, which encrypted data can then be safely transmitted to a secure destination, whereupon it can then be decrypted to obtain back the original data (paragraph 2).

Montgomery further discloses that encryption of data is also well known, and what is known as a key is used to encrypt the data. That same key or version of it can then be transferred to the secure destination and used to decrypt the data that has been transmitted after it has been encrypted using a corresponding decryption key (paragraph 3).

As can be seen from the disclosure of Montgomery, data can be encrypted and sent to a secure destination. And the decryption key is sent to the secure destination to decrypt the data that has been encrypted and transmitted.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by Giniger with the teachings described by Montgomery to arrive at the claimed invention. A motivation for doing so would have been to provide secure access to information by maintaining the integrity and confidentiality of the information.

4. Claims 3-4, 6-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger and Montgomery, further in view of Olsson (previously disclosed).

Regarding claim 3, the combination discloses a system as described above (see claim 1 rejection).

Although the combination discloses a system as described, the combination does not specifically disclose a system wherein upon the position recording apparatus having received a predetermined permission from a first terminal, the position recording apparatus transmits the encrypted position information, which was recorded at the position recording apparatus, of the mobile body corresponding to the first terminal, based on a request from a second terminal, and wherein when the second terminal has directly received the decryption from the first terminal, the second terminal can decrypt the encrypted position information.

However, Olsson discloses a system wherein upon the position recording apparatus having received a predetermined permission from a first terminal, the position recording apparatus transmits the encrypted position information, which was recorded at the position recording apparatus, of the mobile body corresponding to the first terminal,

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based on a request from a second terminal (i.e., a client's identification information is encrypted with an encryption key previously obtained from a network location server (NLS). The encryption key may be a public key in a public key encryption system. The NLS maintains a record indicating a location associated with the identification information. The encrypted identification information is transmitted from the client to the SP. The SP launches a location request to the NLS that includes the encrypted identification information received from the client) (see paragraphs 10 and 43), and wherein when the second terminal has directly received the decryption from the first terminal, the second terminal can decrypt the encrypted position information (i.e., the MC 30 also exchanges public key(s) with the SP 60 and the SP 60 with the NLS 270) (see paragraphs 38 and 43), the second terminal can decrypt the encrypted position information (i.e., the SP 60 decrypts the location information message received from the NLS 270) (see paragraph 42).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to maintain the integrity and confidentiality of the location information (see paragraph 8).

Regarding claim 4, the combination discloses a system as described above (see claim 1 rejection).

Although the combination discloses a system as described, the combination does not specifically disclose a system wherein when the position recording apparatus has received predetermined permission information from the terminal, the position recording apparatus transmits the encrypted position information of a mobile body corresponding to

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the terminal, to a position information service center, based on a request from the position information service center providing predetermined services to the terminal, and wherein when the position information service center has received the decryption data retained by the terminal from the terminal, the position information service center decrypts the encrypted position information, executes a predetermined process for the decrypted position information and transmits the result of the process to the terminal.

However, Olsson discloses a system wherein when the position recording apparatus has received predetermined permission information from the terminal, the position recording apparatus transmits the encrypted position information of a mobile body corresponding to the terminal, to a position information service center, based on a request from the position information service center providing predetermined services to the terminal (i.e., a client's identification information is encrypted with an encryption key previously obtained from a network location server (NLS). The encryption key may be a public key in a public key encryption system. The NLS maintains a record indicating a location associated with the identification information. The encrypted identification information is transmitted from the client to the SP. The SP launches a location request to the NLS that includes the encrypted identification information received from the client) (see paragraphs 10 and 43), and wherein when the position information service center has received the decryption data retained by the terminal from the terminal (i.e., the MC 30 also exchanges public key(s) with the SP 60 and the SP 60 with the NLS 270) (see paragraphs 38 and 43), the position information service center decrypts the encrypted position information (i.e., the SP 60 decrypts the location information message received from the NLS 270) (see paragraph 42), executes a predetermined process for the

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decrypted position information and transmits the result of the process to the terminal (i.e., the SP 60 then generates a service response message to the initial service request from the MC 30 with the requested service adapted to the location of the MC 30. Additionally, the SP 60 may sign the response using the SP private key. In either case, the response is encrypted using the MC public key. The MC 30 then decrypts the service response message received from the SP 60. If the SP's 60 signature is included, the MC 40 verifies the signature of the SP 60 using the SP public key. The requested service may then be presented to the subscriber via the MC 30 device, i.e., to the end-user of the device) (see paragraph 42).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to maintain the integrity and confidentiality of the location information (see paragraph 8).

Regarding claim 6, Giniger discloses a system (see claim 1 rejection) wherein when terminal from the terminal, the position recording apparatus, based on a request from the terminal, decrypts the encrypted position information of a mobile body corresponding to the terminal using the decryption data (see col. 6, lines 35-37. Also refer to col. 17, lines 29-57).

Although the Combination discloses a system as described, Combination does not specifically disclose a system comprising transmitting the decrypted position information to a position information service center providing predetermined services to the terminal, and wherein the position information service center executes a predetermined process for the decrypted position information and transmits the result of the process to the position

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recording apparatus, and wherein the position recording apparatus transmits the result of the process to the terminal.

However, Olsson discloses a system wherein the NLS decrypts the client's encrypted identification information and maintains a record indicating a location associated with the client's identification information. A SP receives the transmitted encrypted identification information from the mobile electronic equipment, transmits a location request to the NLS, the location request including the received encrypted identification information, and provides the location-based service to the subscriber via the mobile electronic equipment according to a response to the location request from the NLS (see paragraph 11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to maintain the integrity and confidentiality of the location information (see paragraph 8).

Regarding claim 7, Combination discloses a system as described above (see claim 1 rejection).

Although the combination discloses a system as described, combination does not specifically disclose a system wherein when the position recording apparatus has received predetermined permission information from the terminal, the position recording apparatus, based on a request from a third party, decrypts the encrypted position information of a mobile body corresponding to the terminal using the decryption data, executes predetermined process for the decrypted position information and transmits the result of the process to the third party.

However, Olsson discloses a system wherein when the position recording apparatus has received predetermined permission information from the terminal, the position recording apparatus, based on a request from a third party (i.e., a client's identification information is encrypted with an encryption key previously obtained from a network location server (NLS). The encryption key may be a public key in a public key encryption system. The NLS maintains a record indicating a location associated with the identification information. The encrypted identification information is transmitted from the client to the SP. The SP launches a location request to the NLS that includes the encrypted identification information received from the client) (see paragraphs 10-13, and 43), decrypts the encrypted position information of a mobile body corresponding to the terminal using the decryption data (i.e., the NLS decrypts the client's encrypted identification information and maintains a record indicating a location associated with the client's identification information) (see paragraphs 10-13), executes predetermined process for the decrypted position information (i.e., maintains a record indicating a location associated with the client's identification information) (see paragraphs 10-13), and transmits the result of the process to the third party (i.e., SP receives the transmitted encrypted identification) (see paragraphs 10-13).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to maintain the integrity and confidentiality of the location information (see paragraph 8).

Regarding claims 8-9, the combination discloses a system (see claim 7 rejection) wherein the predetermined process is a process for responding to a query relating to a

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mobile body corresponding to the terminal (i.e., sending a retrieved response to the mobile terminal) (see col. 6, lines 37-43).

Regarding claim 10, Giniger discloses a system (see claim 7 rejection) wherein the query is at least one of "where is the current position of the mobile body", "whether the mobile body is/was at a designated place", "whether the mobile body is/was at a designated place on a designated date at a designated time", "where is the position at which the mobile body was on a designated date at a designated time" and "on which data and at what time the mobile body was at a designated place" (i.e., from the request, the central site server may correct the motion of the mobile user if the user is going in the wrong direction (e.g., request and response related to the current position of the mobile body) (see col. 11, lines 21-32).

5. Claims 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger and Montgomery, further in view of Pirila, U.S. Patent No. 6674860.

Regarding claim 11, the combination discloses a system as described (see claim 1 rejection).

Although the combination discloses a system as described, the combination does not specifically disclose a system wherein the terminal comprises a plurality of encryption means, and is capable of switching the encryption means for encrypting the position information, based on the position of the terminal and/or the time, or on an instruction from a mobile body.

However, Pirila discloses a system wherein the terminal comprises a plurality of encryption means, and is capable of switching the encryption means for encrypting the

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position information, based on the position of the terminal and/or the time, or on an instruction from a mobile body (i.e., the decryption key can be changed, in which case the new decryption key is transferred to the mobile station advantageously periodically in conjunction with the location update procedure) (see abstract).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described to arrive at the claimed invention. A motivation for doing so would have been to ensure the security as related to the transmission of the location information.

Regarding claim 12, Giniger discloses a system (see claim 1 rejection) wherein the terminal the terminal can measure the position of the mobile body (i.e., means for determining present position information from received position signals) (see col. 5, lines 52-53), encrypt the measured position information with predetermined encryption means and transmit the encrypted position information (i.e., means for encrypting the present position information and means, coupled to the encrypting means, for sending the encrypted present position information to the central server) (see col. 6, lines 21-26).

Although the combination discloses a terminal as described, the combination does not specifically disclose that the terminal comprises a personal authentication means for a mobile body, and wherein when a personal authentication is successfully completed, the terminal can measure the position of the mobile body.

However, Pirila discloses a system wherein the terminal comprises a personal authentication means for a mobile body (i.e., SIM module) (see fig. 10, col. 8, lines 48-49), and wherein when a personal authentication is successfully completed, the terminal

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can measure the position of the mobile body (i.e., SIM module manages the data required for the identification of the subscriber) (see abstract and col. 8, lines 65-67).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings to arrive at the claimed invention. A motivation for doing so would have been to ensure the security as related to the transmission of the location information.

6. Claims 13-14, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger and Montgomery, further in view of Walsh (previously disclosed).

Regarding claims 13 and 20, the combination discloses a system (see claims 1 and 20 rejections) wherein the position recording apparatus receives the decryption data from the terminal and decrypts the encrypted position information using the decryption data (See Montgomery paragraphs 2-3).

Although the combination discloses a system as described, the combination does not specifically disclose a system wherein the position recording apparatus stores in a temporary memory the decryption data, the decrypted position information and the result of a predetermined process executed for the decrypted position information and erases (i.e., erasing unit) from the temporary memory the decryption data, the decrypted position information and the result of the process after transmitting the result of the process to the terminal.

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However, Walsh discloses a system wherein the position recording apparatus stores in a temporary memory the decryption data, the decrypted position information and the result of a predetermined process executed for the decrypted position information and erases from the temporary memory the decryption data, the decrypted position information and the result of the process after transmitting the result of the process to the terminal (i.e., the location-enabled service 108 stores the location information in the location-enabled service. The storage is relatively temporary, until the location-enabled service 108 receives updated location information from the wireless communication device 104) (see paragraph 132).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described to arrive at the claimed invention. A motivation for doing so would have been to ensure that updated location information as related to the present position of the terminal is being maintained.

Regarding claim 14, Giniger discloses a system (see claim 13 rejection) wherein the position recording apparatus executes the predetermined process (i.e., the central site server's means for sending the retrieved response information to the mobile unit comprises means for encrypting the retrieved response information; and means, coupled to the retrieved response information encrypting means, for sending the encrypted retrieved response information to the mobile unit via the bidirectional communications link) (see col. 6, lines 37-43).

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7. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Giniger, Montgomery, and Walsh, further in view of Olsson.

The combination discloses a system as described above (see claim 13 rejection).

Although the combination discloses a system as described, the combination does not specifically disclose a system wherein the position recording apparatus transmits the decrypted position information to a position information service center providing predetermined services utilizing the position information and receives from the position information service center the result of the predetermined process executed by the position information service center.

However Olsson discloses a system wherein the position recording apparatus transmits the decrypted position information to a position information service center providing predetermined services utilizing the position information (i.e., a client's identification information is encrypted with an encryption key previously obtained from a network location server (NLS). The encryption key may be a public key in a public key encryption system. The NLS maintains a record indicating a location associated with the identification information. The encrypted identification information is transmitted from the client to the SP. The SP launches a location request to the NLS that includes the encrypted identification information received from the client) (see paragraphs 10 and 43) and receives from the position information service center the result of the predetermined process executed by the position information service center (i.e., the NLS decrypts the client's encrypted identification information and maintains a record indicating a location associated with the client's identification information. A SP receives the transmitted encrypted identification information from the mobile electronic equipment, transmits a

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location request to the NLS, the location request including the received encrypted identification information, and provides the location-based service to the subscriber via the mobile electronic equipment according to a response to the location request from the NLS) (see paragraph 11).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings as described by the references to arrive at the claimed invention. A motivation for doing so would have been to maintain the integrity and confidentiality of the location information (see paragraph 8).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PIERRE-LOUIS DESIR whose telephone number is (571)272-7799. The examiner can normally be reached on Monday-Friday 9:00AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on (571)272-7023. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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